2) To mention drug & response on eg: when there's a pable thuring any deasease, he will take dongs; these alongs will be absorpced and distributed to all pents of the booky in equilibrium but each Specific dong will act on specific sites in body these sites are known as cellular site Cof charge action. Eg: - CNS -> Neurons: 61TF - Epithelial cells Kickney -> Nephrons. Liver -> hepatocyles. these change will attach to the cell membranes of these cells. I will interact with either from Channel, enzymes or receiptives, more them 90% of atrigs interact with receptors (Recophors com be on all memb, or intercelluler or outside the cell. After enting the all or agricus but can Enter through pores in hopotocytes. -> or by transpertures absorped through nephrons.

inside the cells can interact either with Cernier posteins, enzymer or DNA. inoreine or decrease it's by A Intragaling within the coll:-Ampicillin o propanecial both are acidic () olnings competetively interact with each other for bimeling to the acidic receptors in pibules cells of Nephros to be excreated, Propenecial has higher afinity so it's Excreated increasing the concentration of Ampicillin In blood thus increasing the 1/1's therapeutic effect (acidic drugs ampete for acidic receptor). & Outsich the cells - non receptor / without enzymes or corners. (Chemical) = 1) patient with gastritis HCII toentment - antiacids Al(OH), milk. HCI+ (AI (OH), -> AICI3+ H,O Releive fum Ph1 2) Over close of hepenin - & bleeding). precitment -> portermin + Hepanin -> decreases action of Hapanin thus Stop bleeding.

	a) a laborte varionine)
(3) Inn poisioning -> chang (cles-ferroxamine) markes chelations -> ground.
	makes chelations ->
	gron b.
	: To increase excreation of poisons we have
3	"10 mineure choice of the
6	to change the phig Unine against the
Ь	ph of that amy in order to run of
h	the Unine & thus exercited
lii	Ac. Box churce > give acidic ahuey ->
lk	eg:-Basic chucy -> give aciclic chucy -> poisoning posson ienires in the Unine -excreated.
4	possor por percental.
	where the chartes
*	4) NIIK + Inos er tetracijeline ->
W.	tet a tet
	mobabsorped: (Complex) (Cantt tet
W	- The confidence of the confid
24	and the state of t
4	Concil- Treatment of certain disorders or
7	Overclosage poisoning or side effects by cirkuin amegs based on chanceial mercuetion of
P	his certain ohneys based on Chamerial
R.	Intercetion of charge
	chnig,
0	Till a die die die de la die die de la die die de la die die de la die die de la die die de la die die de la die die de la die die de la die die die de la die
-	(* (physical)) = (Charcoal = 15 a substance
	that adsorbs the penticulo on its surface
•	aved in treatment of poisons which covert
_	still aburbed by GITT & the poison is
0	still absorbed by GITT & the poison is exerceted.
4	

Share & Care Group (2) Marmitol :- has Osmotic /directic Used in case of poisoning and raised intracranial pressure.

increases the concern, of Solute in BV thus attracts the vasodilation in uppness ->

A Main principles of chief Action

1) Moelification . 3 - eg. hypertension: we give antihyper know

2- Renal Insufficiency :- dievretics. 3- fever:- Antipyretics, (feuras)

to modify the action of what's already

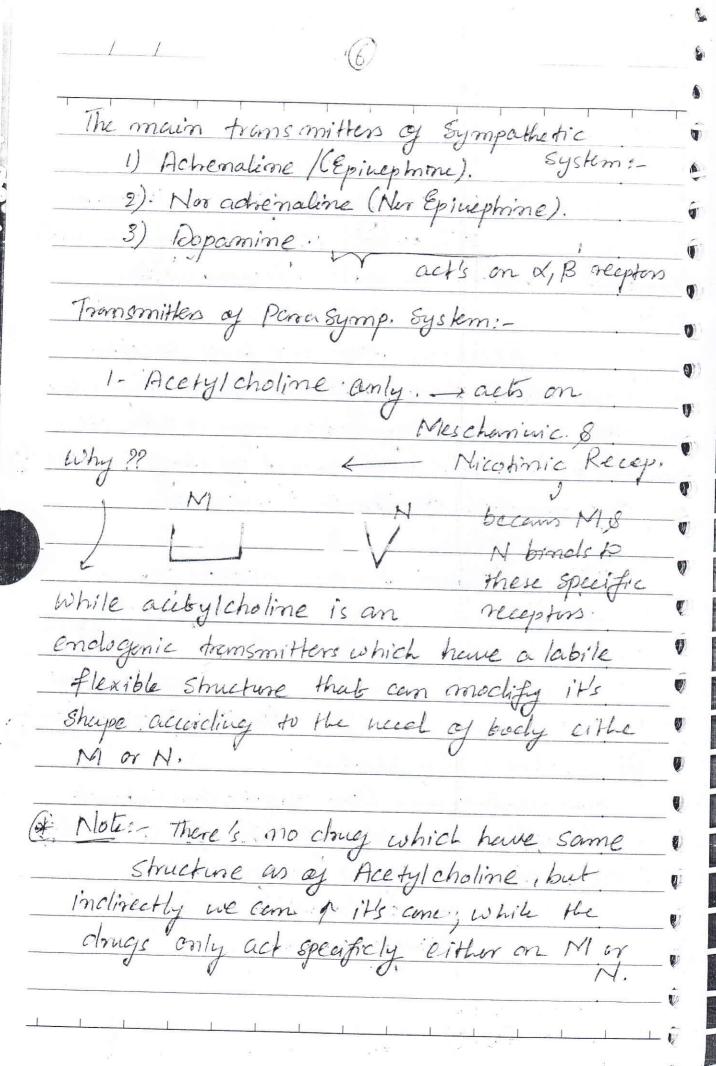
2) Replacement:

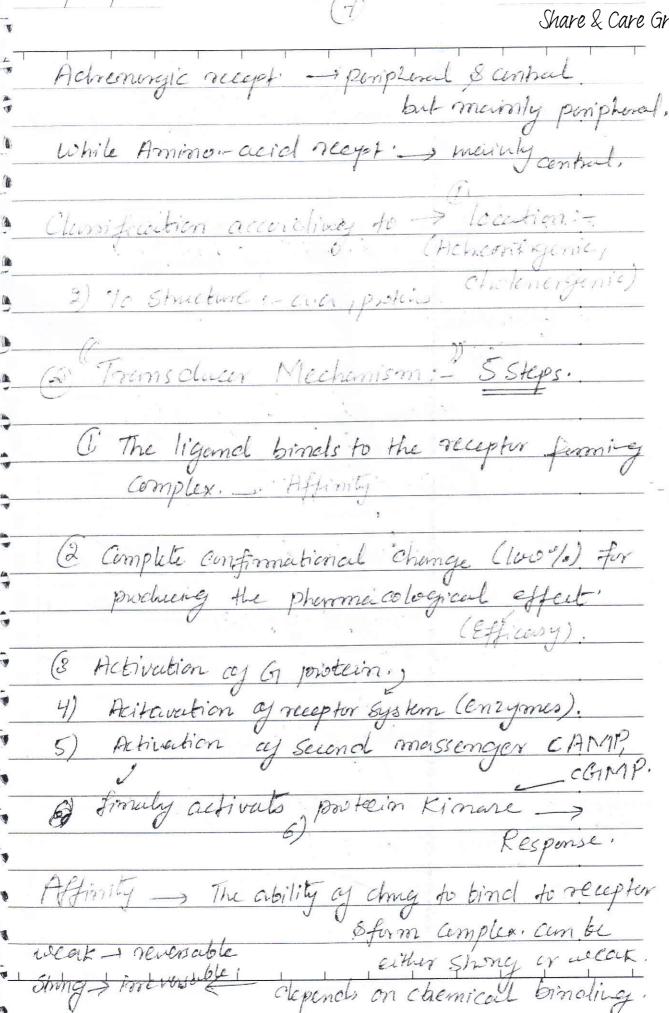
3) Cytotoxic - antiviral , antibacterial.

When there is need to substice diebetics - Insulin.

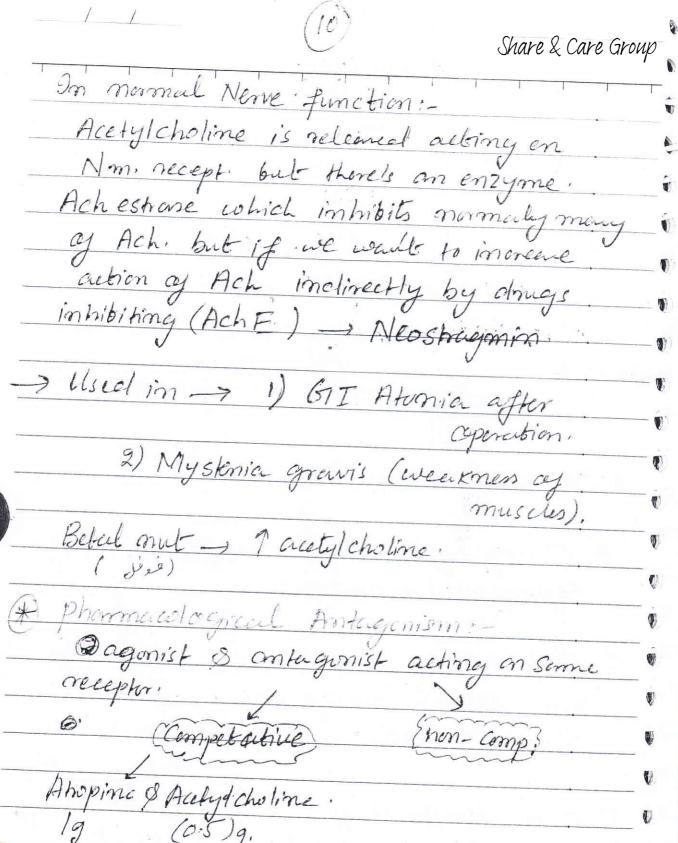
Anacmia - Inn.

(4 Does the chang: introduce orew action on world & No it only modifies, replace or Kills wheels only already formal. but if have new action meems problem. Silent Receptors. Here are some receptors. found outside the cell which binds to chings but doesn't prochece any action eg. -> albumin. act as reservoir when amount of drugg in bloods drug pounded to albumin is released. along + albumin' -> concent cy free. ((in cone of hypocalbumic A Selective & Non selective: Nun- Schelbive -> One neceptor Com interact with diff drugs producing diff effects on diff. Coller Eg. > (phonergern) given for Children. on muscle -> contract. . Kichney, hemmes ...





Share & Care Group Complex & to atomo inchice confirmat Change 100%. Achenaline -Acetylcholine. (M), Adrenatione (tuchycarelia) Careliac muscle GiProtein (GS). Adenylate cyclene Protein Kinase (A) myoxim > Contractility of,



Apropine is antegenist will displace Acetyl. but if we increase anc. cef

Acetyl from 0.5 to 1.

it can proclue its may.



1	In Comp. phorm. antagenism:
01	In comp. prioriti
	the agonist com produce its may reffect
	12 its found in high concert ,
	presence af antagonist.
	in line Cit.
1 No	m- Comp: -3 Active site
	1 1-mp (nin 2)
1	Anterweich bines to another sike sprouder
	confirmational changes on receptor presenting
·	terificational of a chine site ->
)t	Le binding of Agenist on active site ->
>	(-) mon-cemp.
0	of if vise versa > (+) nun- Antemgenism.
	Il is a see the maximum Effect is 1
3	n this case no maximum effect is produced
A U	pregulation > 1 mor of receptors by continous
	use of antagonists eg:- proponolol.
•	adden stop - malignant hypetension.
· · · · · · · · · · · · · · · · · · ·	lat at according to small amount at
	because lot of receptors so small amount of
	actornatione J. B.P gracually decreasing the
	Downregulation > I no of receptors by
	continous use of agenists. eg: - sulbatomoil.
	Cornersions use of agriculture
(B)	by prolonged used no effect.

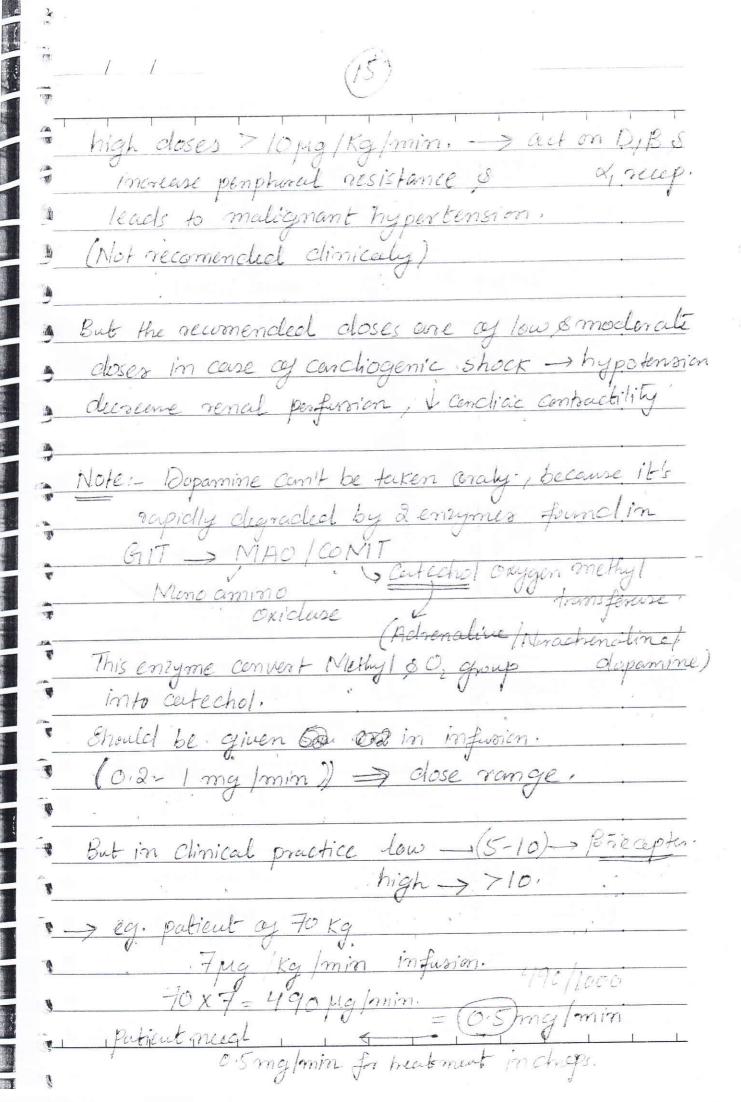
Share & Care Group > Mo af recept are some but Cenfirmational changes So Heat no effect. What's the imp. of Transducer mechanism? - To know the action of the dong in the booly, some dones bind to the receptor & have long term effect for Do hours ... & some of them have 8 hort effect, so we have to take it more them once.

Share & Care Group Hutoricinic Newour System E-The medin Trumsaniter Sit's action. The Achiever genic fransmiker The doney acting an actuaryenic Eysteni, A.NS -> involuntary functions in booky. dopamine > main action in CNS .. in peripheral -> on anysentic BV. - on Renal BV. > Adenohy pophysis :- Regulate Penphery Vasochilation)

to marcare renal perfusion (promocreptione) -> Again

in correliogenic shock. Stop the high release. 1.25 mg of prolactine. Negrostretial zone? (limbic system) -> dopumine no regular cej d'mos de generation (treatment) ej dopanin neur. (lipodopa) agonist act on D2 can use promocreptine but high doses & when we increase dose -> many So here omy ay choice L-clopas If there is no effect of L-deeper.

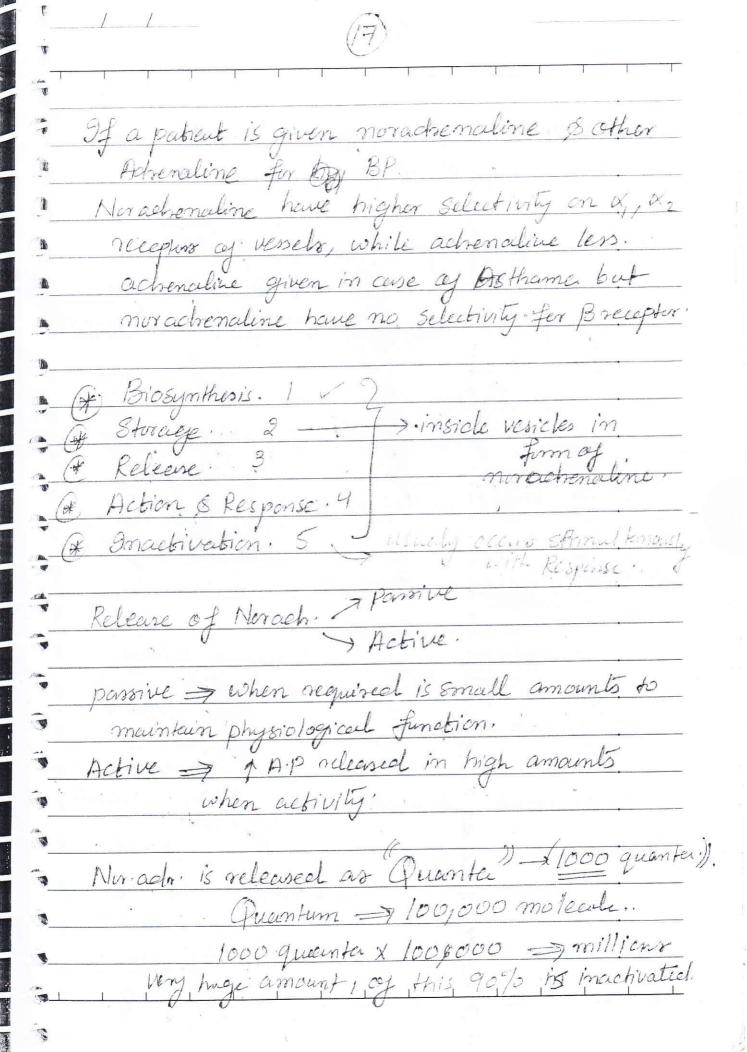
(* Ehemo-receptor-trigor) zone :- deparmine act on D, zone & include vomiting. (Emesis). Treatment => Antagonist -> Chlorpromazine Antiemesis, but it has side effects: 1) parkinsonison in some putient 2) hyperprolaetenemia in women. because it blocks all the areas of D2. Side effect of promocreptine > Emesis.
(& L-clopa) departmen also act on &, B. in addition to D. dopamine effect usually depend on dose. at lew close < 5 Mg/ 1 acts on peripheral system eg: cercliogenic Shock -> I renal perfusion. Situations). A Mole: There are many dongs used for treatmal of Emesis because the mechanism of emesis include different types. moderate close of 5-10 pg/Kg/min -> cut. on D&B, receptors



Isomy Box ml dextrose. Img/2m1. we change occurcting to patient need. 1-m1 = 20 chops = 0:5 mg. 20 chops /min. eg: - 50 x7 = 350 mg/ kg/min. 300/10 0.35mg & 0.4mg 0.5mg = 20 chaps. $0.4mg \leq x$ x = 0.4x20 = 16 0.5 chief2 types of receptino: - x/B => post synaptic of > presynaptic on neosons ferminal discharge). (d) diff- between Achenilline & noraehrenaline.

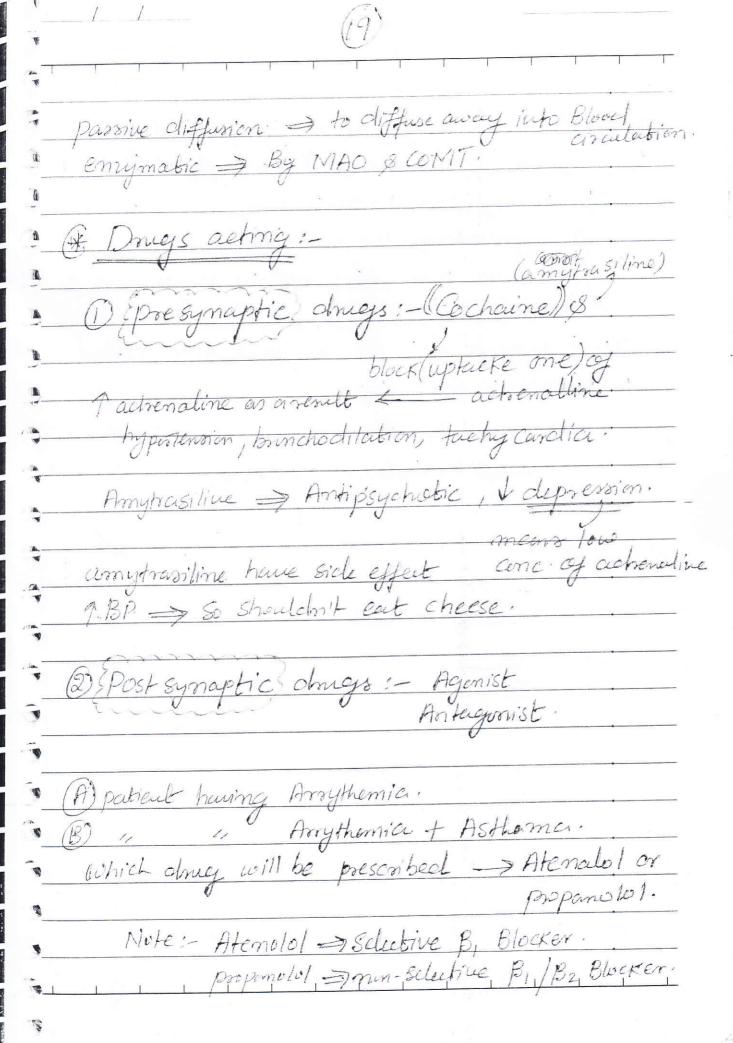
differs in exchirity depends on selectivity

cy receptors.





enzymer inactivate 90%.
enymer mactivelle 40%.
Action ⇒ presynaptic ⇒ (×2) feedback inhibition of dopon post synaptic ⇒ ×1,18,82. 1
inhibition of dopon
Post synaptic = of a mirach relaise;
1/18/182.
To stop release we give aganost (methylolopaer or Choliclin). we can benefit by this in treating hypertension
10 Spop recease we
give agampst (methyldoperer
Choliclim)
_ can benefit by this in breating hyperterior
J. Jerkensierv
(*) Inactivation: - 3 ways.
1) Reuptake 76 means returns
1) buck to newer
2) Passing diffusion. after release
by carner
inside nemen
3) Enzymatic destruction. Cither inactivated
by MAO or Stored.
Stireon.
2) Uptake to Other navin
er tissue, which is
those deconded -
to the second of
of another
by COMIT





Patient (B) We comit give him	propoma lo lo.	
because non-selective will blo	OCK B, 8(β_{z}
Producing Brancho Constrictio	m	1
I aggrevating the conditi	en.	*
So we give him Atendol.	for arrythy	mic +
Sulbatamol for Asthmer.	0 0	
Sulbatamol for Asthmer. While patient (A) we can g	ve him e	Either
propandol or Atendol.		
	Annual Section (Section 2) and the Control of the C	•
		•
		•
B 2	· ·	1
18	2	•
	k	- 1 a
		= 12
	16	
(2)	1	•

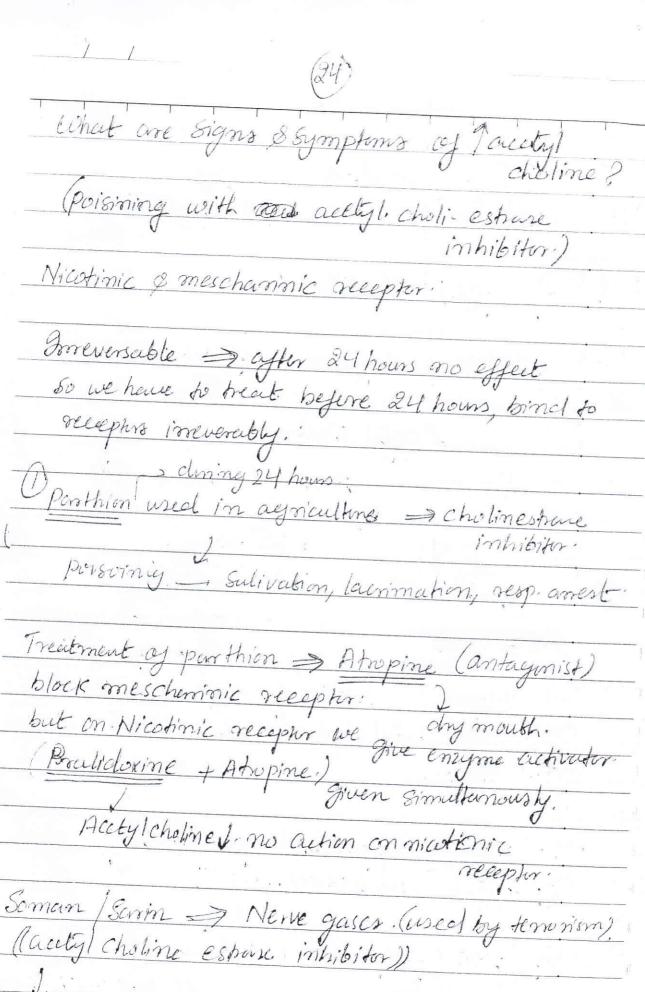
The main tromsmiker + Site of action. townsmission Amegs acting & clinical use. Marchannic & Nicohinic receptors. main tumo. - Acetylcholime. Site of Action of Acetyl choline :-Ganglia (first site og action) Nicotinic 19 bindto genglimic receptor > Acetylcholine @ Stimulate genglia in both Sympathetic & panasympathetic NS, in panasym. 7 release of acetylcholine, while in Sympathetic increme relieve of Adrenative & novadrenative produces lots of distintances, there is no ching. that does the action of acetylcholine but instead Gonglia blockers => (Trimethophan) => severe hypotension beceuse decreeses both Etop & penasymps. used only in case of emergencies in midignish hyportension. (No climical Use) tachycardia, hoppotension.

(2) p	Post ganglienic - penasympathetic neurons mervalis effectirs organs.
	•
er ach	Sweet glands (Exception all Symp. Secreption all Sy
Ac	etylcholine).
On On	Struited muscles on MM receptor choline show muscular) Contraction.
(nia	honic muscular) Contraction,
W Nic	stimic Recep. THMI NG (ganglianic).
Drug	s blocking the 4th site of action
Oleen (D-	s blocking the 4th site of action cere muscular activity (muscle relaxant). Tubo curarine. & Gallamin) 2.
used in	reperations to reduce use of anesthesica. S to relax musles.
	Sharfan and mesthesica

6



-1	
17	(5) CNS => good fir memory. Alzahymer deasese => 1 acitylcholine. release.
4	Alzahymer dearese > 1 acitylcholine
1	release.
<u></u>	(5 Steeps of Syntheris).
1_	
<u>.</u>	Inactivation by enzyme acetylcholine estruze
1_	
<u></u>	Acetyl Choline
A	Acetyl ch estruse (8)
**	
, <u>ku</u>	Acet S Choline
	(Acetyl) returned back:
<u> </u>	Kreb's cycle to neuron for resynthesi-
/m	of Acetyl choline.
-	True enzyme: - which only degendes the
_	True enzyme: - which only degendes the endogenous Acetyl cho! must that which mimic
A	lilce charge.
7	False enzyme! - degrades charge resembling
	acetylcholine Clocal ancies thetics).
73	"Acetyl choline enzyme Inhibiter! - > 1 concen-
3	(Céprène) of Acetylchiline
	(Estruse) On hibiter) - A concentration (Copiese) Of Acetylchiline. inclinethy increase Acetyl-chiline by blocking, the enzyme mot directly by receptors.
13	the confine and on seetly by receiptors.



Treatment of poising by pralicionine + Atropine.

